

# PEO IEW&S Overview

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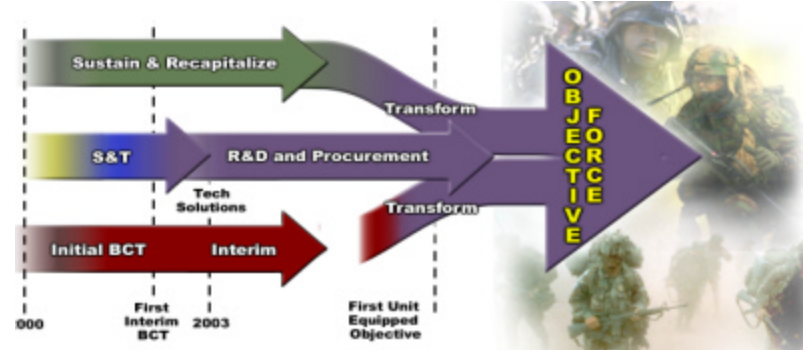
- **Vision**
- **Organization**
- **Transformation**
- **Sensor Grid**
- **Technology Needs**
- **Programs**
  - **DCGS-A**
  - **Signals Warfare**
  - **NV/RSTA**
- **Virtual Acquisition Planning for Industry**

# Army Vision

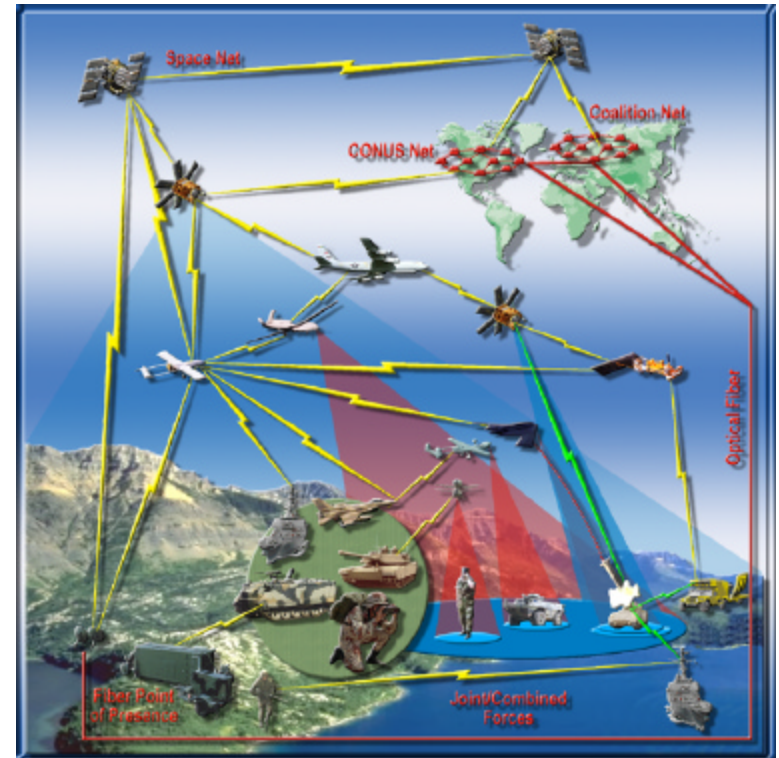


A strategically responsive force that is dominant across the full spectrum of operations....

*...See First...*  
*Understand First...*  
*Act First...*  
*Finish Decisively!*



National - Joint - Combined





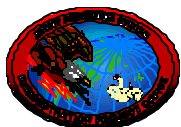
## PM Signals Warfare

PM Aerial Common Sensor  
PM Prophet  
PM Information Warfare



## PM DCGS-A

PM CGS & Datalinks  
PM CHIMS



## PO JPSD



## PM Navigation Systems

PM TIMS  
PM GPS/DAGR



## PM NV/RSTA

PM FLIR  
PM Robotic and Unmanned  
Sensors  
PM Firefinder

## PM Tactical Applications



## PM Aviation Systems

PM IRCM  
PM RFCM



## PM C&ISS



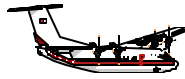
# Actionable Intelligence Capabilities

## Dominant Maneuver

- Airborne
- Ground-Based



GR/CS



ARL



TUAV Payloads



ACS



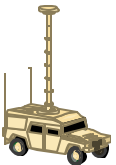
MARS



TESAR



TSP



Prophet



CGS



LRAS3



2nd Gen FLIR  
f/ Bradley



DCGS-A



PLGR



DVE

## Precision Engagement

- Targeting
- Sensor-to-Shooter



TUAV  
Payloads



Profiler



GR/CS



CGS



Firefinder



DCGS-A



LLDR



JTT



2nd Gen FLIR  
f/ Abrams

# Actionable Intelligence Capabilities

Force Protection • Full Dimension



**CID Panels**



**BCIS**



**2nd Gen FLIR**



**LVR**



**LRAS3**

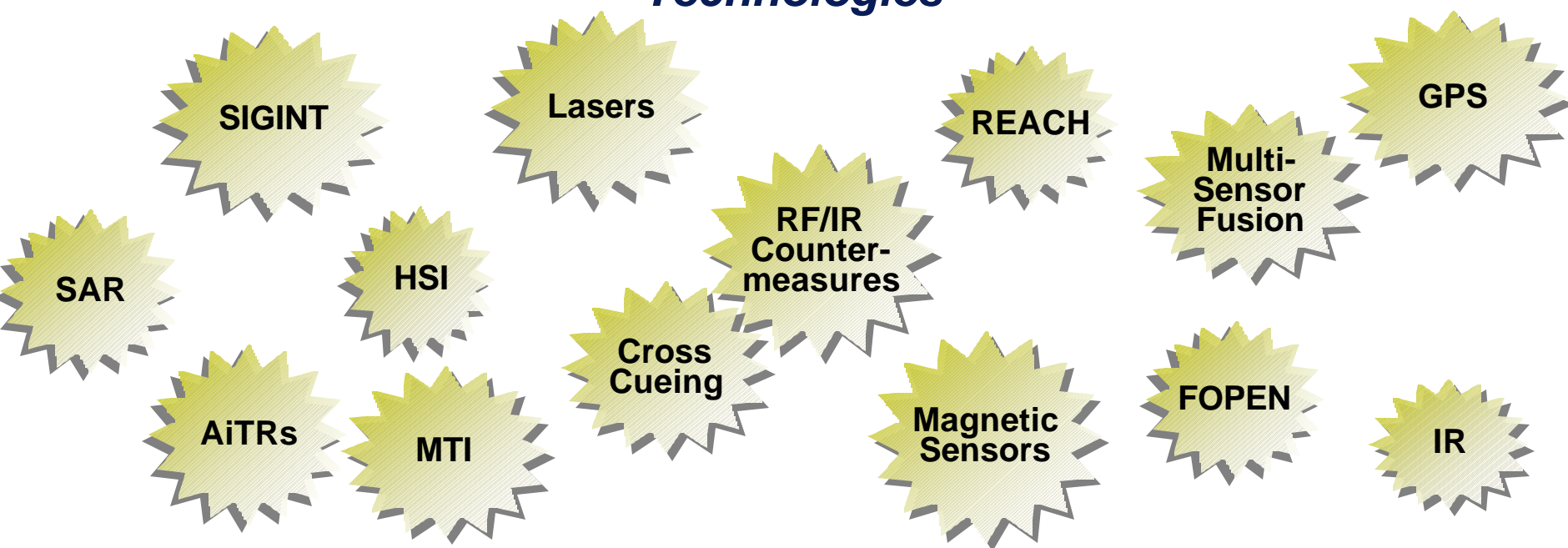


**TUAV  
Payloads**



**ACS**

## *Technologies*



## ***Early Situational Understanding in Advance of the Fight***

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- Enhanced **Indications and Warnings** (I&W) which Enables **Operational Maneuver from Strategic Distance**
- **Superior Intelligence** to Better Manage **Transition to Combat** on our Own Terms
- **Enabling ISR Sensors** for Early Detection-Targeting is a 2<sup>nd</sup> Priority

## ***Tactical Overmatch in Any Situation***

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- Will Operate with a '**Red Zone**' that is Considerably **Larger** than the 3-5km Envisioned in Current Doctrine
- **Embedded RSTA Sensors** that Allow us to **See Further**, and Provide Ability to Engage with **Long-Range Fires**
- **Full Spectrum Dominance** in Both **Urban** and **Open** Environments

## ***High Tempo – Continuous, Simultaneous Engagements***

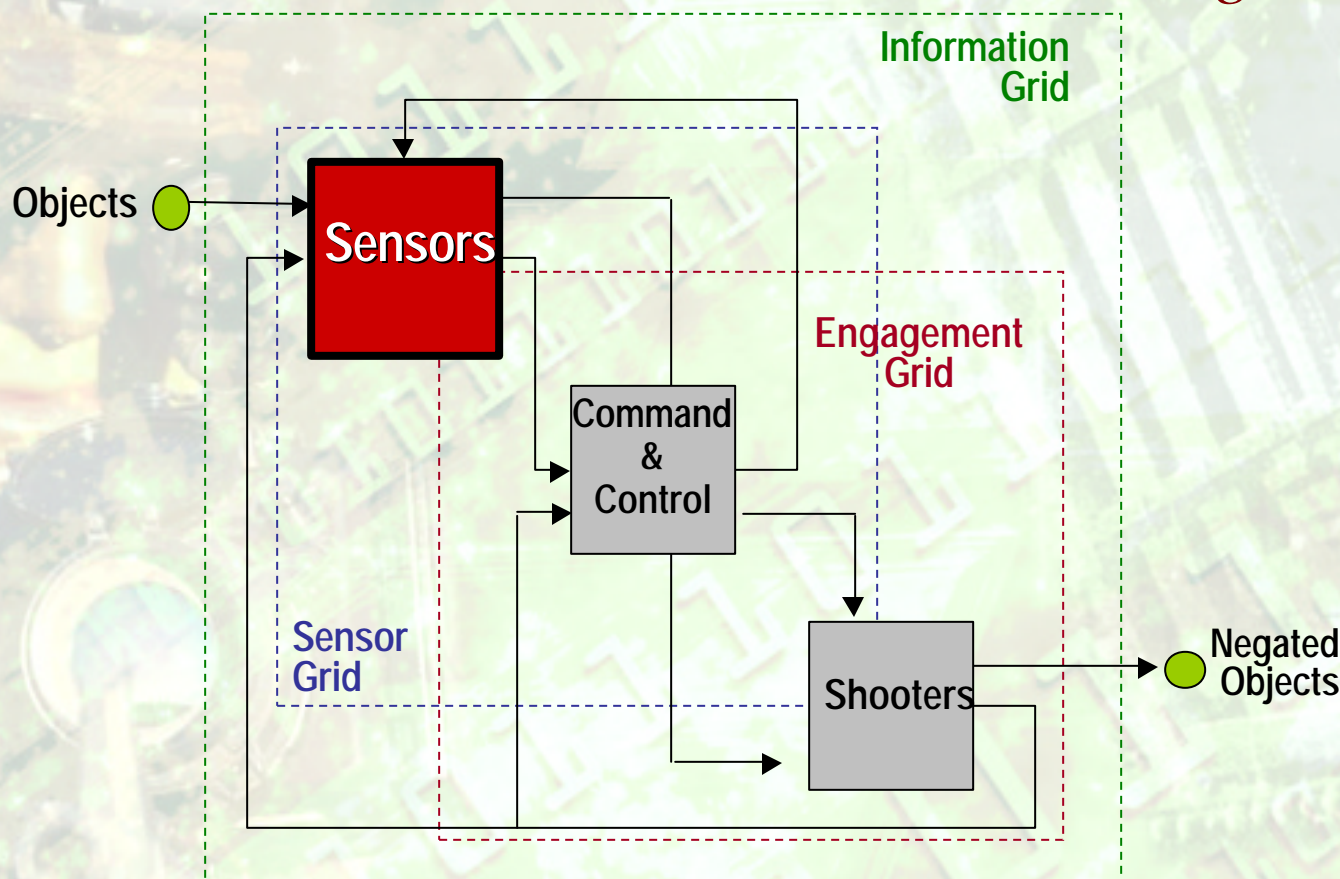
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- **Simultaneous Engagement** and **Distributed Operations**
- **Will Control More Space** with Less Manpower and **Reduced Foot Print**
- **Integrated, Layered Sensors** enables **Adaptive Dominance**



# Army Transformation – Where We Are Going...

## *Netted Sensors Provide Actionable Intelligence*



*“In the fundamental shift to network-centric operations, **sensor networks** emerge as key enabler of increased **combat power**.”*

- Network Centric Warfare, 2<sup>nd</sup> Edition, Alberts, Garthski, Stein



# Technology Needs for the Objective Force

## IMINT

- Uncooled focal plane arrays
- 3<sup>rd</sup> Gen FLIR (higher resolution, longer ranges)
- Aided target recognition
- Data fusion and correlation

## MASINT

- Less complex man-machine interface
- Cross cueing to more mature sensors
- Millimeter Wave Imaging (through the wall)
- Magnetic sensing

## SIGINT

- Efficient Low Band arrays
- Detecting Low Band Emitters
- Sharing COMINT resources
- Embedded precision geo-location (Multi-Ship operations)
- Beam forming interference cancellation (discriminating military targets in high density non-military environments)

# Technology Needs for the Objective Force

## Masked Target Sensors

- Locating CC&D targets
- Locating Buried Mines

## National Tactical Integration

- Cooperative operations from manned and unmanned IMINT and MASINT platforms
- Airborne Overhead Cooperative Operations (AOCO)
- Network Centric Cooperative Targeting (NCCT)



### Program Objective:

An integration of existing and future ISR ground stations to produce a common modular, scalable, and Multi-INT joint interoperable architecture and capability.

### Key Features:

- **Improve Warfighter Situational Awareness/Understanding**
- Improved Intel Dissemination at all Echelons
- Reduced Intel Forward Footprint
- Network Centric System of Systems Approach
- Interoperability and Data Sharing
- Multi-INT TPED
- Interim DCGS-A Based on Legacy Systems
- AoA to Determine Objective DCGS-A Approach

### Key Players:

PEO IEW&S	MDA
USAICS	DCGS-A Requirements
ASPO	TES Legacy System
PM SW	GRIFN Legacy System
PM DCGS-A	CGS Legacy System CHIMS Legacy System
PM I&E	ASAS <b>Legacy System</b>

### Program Major Milestones:

<u>DATE</u>	<u>EVENT</u>
2QFY 02	Modify Legacy System Contracts
<b>1QFY 03</b>	<b>Enable INSCOM (513<sup>th</sup> MI Bde w/DCGS-A)</b>
2QFY 03	Objective DCGS-A ORD Approval
3QFY 03	Objective DCGS-A MS B
4QFY 03	Interim <b>DCGS-A</b> at XVIII ABC
FY 04	Interim <b>DCGS-A</b> to III Corps
FY 06	Objective DCGS-A MS C
FY 09	Objective DCGS-A IOC

Key Considerations: FCS Synchronization  
**Sensor** Synchronization  
Unit Set Fielding

# Contract Opportunity

Objective: **Provide Integrated Multi-INT Common Ground Station for the Objective Force**

Contract Type: **Competitive**

Estimated Value: **TBD**

Key Milestones: **3QFY03 MS B; 4QFY03 Contract Award**

Technical Contact:

Acquisition Contact: **TBD**

Solicitation # or RFQ #: **TBD**

*“The whole of military activity . . . the end for which a soldier is recruited, clothed, armed, and trained . . . is simply that he should fight at the right place and at the right time.”*

Clausewitz

***Must Have  
ISR!***

*See First...*

*Understand First...*

*Act First...*

*Finish decisively...*